PROCEDURAL HISTORY

On December 19, 2007, the federal Energy Independence and Security Act of 2007 (EISA or the Act) was signed into law.¹ Among other things, the Act required state regulatory authorities to consider adopting specified standards and requiring rate-regulated electric and gas utilities with retail sales over a specified threshold to meet those standards. Portions of the new federal Act amend the Public Utility Regulatory Policies Act of 1978 (PURPA).²

In Docket No. E,G-999/CI-08-94, the Commission examined the standards the Act requires it to consider adopting, and found that all of the standards – save for the smart grid standard – had already been considered and appropriately implemented in Minnesota.³ The Commission’s Order initiated an industry-wide examination of the smart grid standard.


² Section 11 l(d) of PURPA, 16 U.S.C. § 2621(d) and Section 303(b) of PURPA, 15U.S.C. § 3203.

On August 25, 2008, the Commission issued a notice seeking comments from utilities and other stakeholders on whether, and if so, how, to establish standards and criteria relating to smart grid, and specifically seeking comments describing the types of smart grids that are available, are in the process of being implemented, or are in operation, in order to better understand the issues related to smart grid standards. Initial comments were due on September 24, 2008; reply comments were due on October 15, 2008.

The Commission received comments from the following utilities and stakeholders:

- Interstate Power and Light Company
- Xcel Energy
- North American Water Office (NAWO)
- Ad Hoc Smart Grid Work Group
- Cooperative Energy Futures
- Minnesota Center for Energy and the Environment
- Great River Energy

The Office of Energy Security of the Minnesota Department of Commerce also filed comments in this matter.

On May 14, 2009, the Commission met to consider the matter.

**FINDINGS AND CONCLUSIONS**

I. The Issues

The issues on which the Commission sought comment are set forth below:

- Should the Commission decide on a definition or description of a smart grid in this proceeding, and if so, what should that be? If not, what general features make up a smart grid;

- Provide specific examples of how a smart grid can benefit consumers, utilities, and others;

- Provide examples of smart grid elements or features implemented or considered by the utility;

---

4 The Ad Hoc Smart Grid Work Group is comprised of the Institute for Local Self Reliance, the Cooperative Energy Futures and NAWO.
• Should the Commission adopt or adopt with modifications any of the standards listed in the federal Act related to smart grid Investments and Information?5

• If the Commission declines to implement the federal standards, are there other policies or measures that should be adopted?

II. Definition or Description of a Smart Grid

A. The Comments

All of the comments received regarding whether a definition or description of smart grid should be established in Minnesota recommended that the Commission not decide on a strict definition in this proceeding. Xcel commented that selecting a definition may limit the scope and consideration of smart grid technology in the future. Interstate Power and Light Company stated that it would be “premature.”

The Ad Hoc committee commented that a formal definition would “likely miss the mark due to the rapidly changing technological developments going on.” The OES commented that the term cannot be reasonably defined at this time, as smart grid technology could be a customer information system about energy use, a centralized system used by utilities to assist customers manage their energy use, or something not as yet developed.

B. Commission Action

The Commission is cognizant of the concerns raised in the comments, that a definition not be established at this time that would hinder or limit the subsequent development of the concepts included within the term “smart grid.” However, while not intended to limit or restrict the subsequent development of technologies, devices or protocols yet to come, the Commission finds it would be useful to set forth a working definition of the term, so as to educate utilities and consumers alike regarding the concepts raised.

The Commission will thus adapt and modify the definition of smart grid appearing in Section 1301 of the federal Act, as follows:

A Smart Grid encompasses information and control technology to improve the reliability, security, and efficiency of the electric grid. A Smart Grid allows deployment and integration of distributed and renewable resources, “smart” consumer devices, automated systems, and electricity storage and peak-shaving technologies.

516 U.S.C. § 2621(d)(18) and (19).
III. Utilities’ Efforts to Date in Implementing Smart Grid Elements or Features

Xcel stated that its Colorado subsidiary is in the process of building the nation’s first fully-integrated smart grid in Boulder, Colorado, called SmartGridCity. The project is the densest concentration of smart grid technologies in a single location to date. Xcel stated that by December 2009, it expects that SmartGridCity will have small-scale power, advanced monitoring, energy storage, smart substations and in-home energy control devices.

Great River Energy stated that it is conducting a “smart metering” pilot program with two of its retail distribution cooperatives, which includes the installation of smart metering in 500 residences. In each residence, the company will install a communication system to communicate day-ahead price signals to the consumer. The Great River Energy program will utilize a control group that will allow the company to compare consumption patterns in an effort to determine whether end-use consumers use the pricing information that will be available to them. Great River Energy also stated that it regularly reviews information regarding “distribution” smart grid technologies published by the Electric Power Research Institute.

Other utilities stated that they were weighing and considering smart grid technologies. At the Commission meeting, Dakota Electric stated that it is taking steps toward a more automated grid with respect to its distribution system, involving digital relays, automated controls, remote monitoring and load management. The company also stated that it is considering limited pilot projects related to smart metering, where customers will have more control of their home usage.

Interstate Power and Light stated that it has an initiative in progress to implement advanced metering infrastructure (AMI), the backbone of a two-way communication system between utilities and consumers which can provide timely, if not real-time, data to consumers regarding energy consumption, energy costs, and pricing. Interstate Power and Light commented that it has an initiative underway to implement AMI in three phases in its entire service area over a four-year period. Interstate Power and Light also stated that it is considering a customer education program regarding smart grid technologies and potential product bundling.

Otter Tail Power stated that it is considering an automated residential demand response system, where customers would decide if they wish to continue to use power at peak times based on the information provided.

IV. Consideration of the Federal Standards

A. The Comments

Commenting utilities generally cautioned that there is not enough information at present to make determinations regarding adoption of the federal standards. Xcel, while in agreement with the federal standards in concept, stated that it was premature to adopt the federal standards now, as the industry is in only its first stages of integration and testing of smart grid technologies.
Interstate Power and Light concurred that it is too early to adopt the federal standards. The OES also concurred with this view, stating:

Before moving ahead with SGT (smart grid technology), it is important to assess whether the benefits to ratepayers offset the costs they will be required to pay. Since a cost/benefit analysis cannot be performed at this time and because SGT does not result in direct energy savings, the OES recommends that the Commission not adopt standards requiring investigation into SGT as part of resource plans or certificate-of-need proceedings. Nonetheless, the Commission may choose to encourage utilities to explore the feasibility and cost-effectiveness of SGT projects on their systems.

NAWO recommended that the Commission adopt the two federal standards immediately.

The Ad Hoc group suggested that the Commission should require utilities to view smart grids as an alternative to traditional generation or transmission investments. Further, given that Minnesota authorizes rate recovery for transmission investments, the Ad Hoc group recommended that rate recovery for smart grids also be authorized.

**B. Commission Action**

The federal Act requires state regulatory authorities to consider adopting a standard requiring each electric utility, prior to undertaking investments in non-advanced grid technologies, to demonstrate that it considered an investment in a qualified smart grid system, based on factors such as: total costs; cost-effectiveness; improved reliability; security; system performance; and societal benefits. The Act also requires consideration of rate recovery from ratepayers for the implementation of a smart grid system, recovery of the remaining book-value costs of any equipment rendered obsolete by the deployment of a smart grid system, and the provision of written or electronic access to appropriate smart grid information. The federal Act further requires that electricity purchasers be provided direct access to smart grid information regarding pricing, individual usage (with daily updates), and sources of power used.

As evidenced by the submissions in this docket, Minnesota utilities are already proceeding with preliminary smart grid projects. Moreover, utilities making investments in technologies that are "used and useful," and expenditures that are "prudent and reasonable," are currently eligible to request rate recovery in utility rate cases, or through riders, regardless of whether the Commission adopts the federal standards for smart grid standards at this time. The goals supporting the federal smart grid standards, such as operational efficiency, conservation, encouragement of renewable energy and distributed generation, are already goals that are encouraged under state statute and Commission policy.

---


Having examined the standards contained in the federal Act, and the comments of the OES, interested parties, and stakeholders, the Commission finds that more information is needed on smart grid technology before the Commission can take specific action. In an effort to support the development of smart grid technologies, and gain much needed information about the effects of smart grid technology on integrated utility systems, however, the Commission will require utilities to implement the following measures:

First, the Commission will adapt and modify the federal smart grid standards considered for appropriate use in Minnesota. The Commission will authorize and encourage utilities to move forward to implement new smart grid technologies, in order for the utilities and the Commission to gain a greater understanding and experience with these technologies. The Commission will also require utilities to file with the Commission reports on past, current, and planned smart grid projects, so as to educate itself on the results of such efforts. Finally, the Commission will host annual or other appropriate periodic public meetings for utilities to report on their smart grid projects as part of a continuing dialogue for information gathering purposes.

Second, the Commission will encourage utilities to file appropriate cost recovery petitions for recovery of reasonable and prudent costs for the deployment of qualified smart grid system projects as allowed by law, when made in an appropriate fact-specific filing to the Commission.

Third, the Commission will encourage utilities utilizing smart grid technology to petition to recover the remaining book-value costs of any equipment rendered obsolete by the utility’s deployment of smart grid technology, if reasonable, allowed by law, and made in an appropriate fact-specific filing to the Commission.

Fourth, the Commission puts utilities on notice that it may require utilities to provide electricity purchasers with information relating to: time-based pricing in the wholesale and retail markets, specific customer usage information, updates of information on prices and usage where available, and, on an annual basis, information on the source of the power provided by the utility to the consumer.

Finally, while the Commission’s decision in this docket applies only to rate-regulated utilities, as specified under the federal standards, the Commission requests that non-rate-regulated utilities also provide reports to the Commission and participate in any meetings in the manner that the Commission has ordered for rate-regulated utilities.

ORDER

1. The Commission hereby adopts the following Smart Grid Standards, as are set forth below:
Consideration of Investments

A. Beginning on April 1, 2010 and annually thereafter, utilities shall file reports on past, current, and planned smart grid projects, with a description of those projects, including: total costs, cost effectiveness, improved reliability, security, system performance, and societal benefit, with their electric service quality reports.

B. The Commission hereby encourages each electric utility of the State to petition for recovery from rate payers any reasonable and prudent capital, operating expenditure, or other costs of the electric utility relating to the deployment of a qualified smart grid system, including a reasonable rate of return on the capital expenditures of the electric utility for the deployment of the qualified smart grid system as allowed by law, when made in an appropriate fact-specific filing to the Commission.

C. The Commission hereby encourages any electric utility or other party of the State to deploy a qualified system to recover in a reasonably timely manner the remaining book-value costs of any equipment rendered obsolete by the deployment of the qualified smart grid system, based on the remaining depreciable life of the obsolete equipment if reasonable, allowed by law, and when made in an appropriate fact-specific filing to the Commission.

Smart Grid Information

D. Standard - The Commission may require that some or all electricity purchasers shall be provided direct access, in written or electronic machine-readable form as appropriate, to information from their utility as provided in subparagraph (E) when the issue has been raised in an appropriate fact-specific filing to the Commission.

E. Information- Information provided under this section, to the extent practicable, shall include:

(i) Prices- Purchasers and other interested persons shall be provided with information on--
   (I) time-based electricity prices in the wholesale electricity market; and
   (II) time-based electricity retail prices or rates that are available to the purchasers.
(ii) Usage- Purchasers shall be provided with the number of electricity units, expressed in kwh, purchased by them.
(iii) Intervals and Projections- Updates of information on prices and usage shall be offered on not less than a daily basis, shall include hourly price and use information, where available, and shall include a day-ahead projection of such price information to the extent available.
(iv) Sources- Purchasers and other interested persons shall be provided annually with written information on the sources of the power provided by the utility, to the extent it can be determined, by type of generation, including greenhouse gas emissions associated with each type of generation, for intervals during which such information is available on a cost-effective basis.

2. The Commission hereby directs its Executive Secretary to host annual or other appropriate periodic public meetings for utilities to report on their smart grid projects as part of a continuing dialogue for information gathering purposes.

3. The Commission adopts the following working definition of smart grid:

A Smart grid encompasses information and control technology to improve the reliability, security, and efficiency of the electric grid. A smart grid allows deployment and integration of distributed and renewable resources, “smart” consumer devices, automated systems, and electricity storage and peak-shaving technologies.

4. This Order shall become effective immediately.

BY ORDER OF THE COMMISSION

Burl W. Haar
Executive Secretary

(SEAL)
STATE OF MINNESOTA)  
COUNTY OF RAMSEY)  

AFFIDAVIT OF SERVICE

I, Margie DeLaHunt, being first duly sworn, deposes and says:

That on the 5th day of June, 2009 she served the attached
ORDER TAKING ACTION UNDER FEDERAL INDEPENDENCE AND SECURITY ACT
OF 2007.

MNPUC Docket Number: E-999/CI-08-948

XX By depositing in the United States Mail at the City of St. Paul, a
true and correct copy thereof, properly enveloped with postage
prepaid

XX By personal service

XX By inter-office mail

to all persons at the addresses indicated below or on the attached list:

Commissioners
Carol Casebolt
Peter Brown
Eric Witte
Marcia Johnson
Kate Kahlert
Stuart Mitchell
Michelle Rebholz
Chris Fittipaldi
Janet Gonzalez
Mary Swoboda
DOC Docketing
AG - PUC
Julia Anderson - OAG
John Lindell - OAG

Subscribed and sworn to before me,

a notary public, this 5th day of
June, 2009

Notary Public

[Signature]
<table>
<thead>
<tr>
<th>ID</th>
<th>Contact Information</th>
</tr>
</thead>
</table>
| 10 | Tim DenHerder-Thomas  
    Cooperate Energy Futures  
    1771 Grand Avenue  
    St. Paul MN 55105 |
| 20 | Kristen Eide-Tollefson  
    R-CURE  
    P O Box 130  
    Frontenac MN 55026 |
| 30 | Edward Garvey  
    Dept. of Commerce  
    32 Lawton Street  
    St. Paul MN 55102 |
| 40 | Arshia Javaherian  
    Alliant Energy Corporate Services, Inc.  
    PO Box 77007  
    Madison WI 53707-1007 |
| 50 | Matt Lacey  
    Great River Energy  
    12300 Elm Creek Boulevard  
    Maple Grove MN 55369-4718 |
| 60 | Julia Anderson  
    MN Office Of The Attorney General  
    1400 BRM Tower  
    445 Minnesota Street  
    St. Paul MN 55101-2131 |
| 70 | Kyle MacLaury  
    MN Center For Energy and Environment  
    Suite 560  
    212 3rd Avenue North  
    Minneapolis MN 55401 |
| 80 | Priti R. Patel  
    Xcel Energy  
    5th Floor  
    414 Nicollet Mall, 5th Flr  
    Minneapolis MN 55401-1993 |
| 90 | Erin Stojan Ruccolo  
    Fresh Energy  
    Suite 220  
    408 St. Peter  
    St. Paul MN  
    SaGonna Thompson  
    Xcel Energy  
    414 Nicollet Mall 7th Floor  
    Minneapolis MN 55401-1993 |

George Crocker  
North American Water Office  
P. O. Box 174  
Lake Elmo MN 55042
Ada Water & Light Dept.
John Kappes Public Works Director
900 West Main St.
Ada MN 56510-1281

Aitkin Public Utilities Commission
Charles Tibbetts Mgr.
120 1ST ST NW
Aitkin MN 56431-1306

Alvarado Electric Dept.
Ken Dagobert Supt.
PO Box 935
Alvarado MN 56710

Arrowhead Electric Coop., Inc.
Jeannie Muntean
PO Box 39
Lutsen MN 55612-0039

Barnesville Municipal Light & Power
Jerry Dow General Manager
PO Box 550
Barnesville MN 56514

Benson Water & Light Dept.
Glen Pedersen Director of Finance
1411 Pacific Avenue
Benson MN 56215

Blooming Prairie Public Utilities Commission
R.D. Kittelson General Mgr
146 3rd Avenue SE
PO Box 55
Blooming Prairie MN 55917

Brainerd Water & Light Dept.
Walter Sjoland Supt.
1151 Highland Scenic Drive
P. O. Box 373
Brainerd MN 56401-0373

Brown County Rural Electric Assn.
WADE HENSEL
PO BOX 529
24386 STATE HWY 4
SLEEPY EYE MN 56085-0529

John Markas Foreman
P. O. Box 704
Buhl MN 55713

Caledonia Light & Water Dept.
Robert Nelson Clerk
231 East Main Street
PO Box 232
Caledonia MN 55921

Cedar Valley Rural Electric Coop.
Jerry Thompson CEO, Manager
P. O. Box 70
St. Ansgar IA 50472

Adrian Light & Water Commission
Terrance Miller Supt.
PO BOX 187
Adrian MN 56110-0187

Alexandria Light & Power (E)
Allen Crowser Gen. Mgr.
316 FILLMORE ST
PO Box 609
Alexandria MN 56308-1315

Anoka Water, Light Dept.
Finance
2015 1st Avenue N
Anoka MN 55303

Agralite Cooperative
Korwin Johnson General Manager
PO BOX 228
320 E HIGHWAY 12
Benson MN 56215-0228

Alpha Electric Dept.
Linda York Clerk
PO Box 97
Alpha MN 56111

Arlington Electric & Water Dept.
Matthew Jauvin Administrator
204 Shamrock Dr.
Arlington MN 55307

Austin Utilities - Electric
Jerome C. McCarthy Gen. Mgr.
400 4th St. NE
Austin MN 55912

Baudette Municipal Light Plant
G.B. Taylor, Jr. Supt.
P. O. Box 548
Baudette MN 56623

Bemidji MN 56601

Brownton Municipal Light Plant
Cynthia Lindeman Clerk
City Hall
Brownton MN 55312

Buffalo Municipal Electric Dept.
Joseph Steffel Supt.
212 Central Avenue
Buffalo MN 55313

Caledonia Light & Water Dept.
Robert Nelson Clerk
231 East Main Street
PO Box 232
Caledonia MN 55921

Cedar Valley Rural Electric Coop.
Jerry Thompson CEO, Manager
P. O. Box 70
St. Ansgar IA 50472
Ceylon Water & Light Dept.
William Ditz
112 W. Main
Box 328
Ceylon MN 56121

City of Lake City
Scott Jensen Public Works Director
205 West Center Street
PO Box 465
Lake City MN 55041

Coop. Light & Power Assn. Of Lake Co, The
Kevin Beardsley Gen. Mgr.
4th St. & 15th Ave.
PO Box 69
Two Harbors MN 55616

Darwin Electric Dept.
Carmen Buhr Clerk
Box 67
Darwin MN 55324

Dundee Light & Power
Mary Norton City Clerk
111 N. Main St.
Dundee MN 56131

East Grand Forks Water & Light
Dan Boyce General Manager
600 Demers Ave. NW
P. O. Box 322
East Grand Forks MN 56721-0322

Elk River Municipal Utilities
Slominski Theresa
PO Box 430
Elk River MN 55330-0430

Federated Rural Electric Assn.
R.G. Burud
Hwy 71 South Box 69
Jackson MN 56143

Gilbert Water, Light & Water Dept.
Gary Mackley City Clerk
16 S Broadway, po box 548
Gilbert MN 55741

Grand Marais Public Utilities Comm.
Russell Good Mgr.
15 Broadway N.
PO Box 600
Grand Marais MN 55604

Chaska Water & Light Dept.
Mr. Steve J. Wilker City of Chaska - Utility
660 Victoria Drive
Chaska MN 55318

Clearwater-Polk Electric Coop., Inc.
Bruce Bjerke General Manager
PO Box O
Bagley MN 56621

Crow Wing Cooperative Power & Light Co.
Bruce L. Kraemer Gen. Mgr.
PO Box 507
Hwy 371 North
Brainerd MN 56401

Delano Municipal Utilities Commission
Hal Becker Supt.
11 West Bridge Avenue
Delano MN 55328

Dunnell Light & Water
Janette Hybbert City Clerk
PO Box 94
Dunnell MN 56127

Ely Light & Water Dept.
Harold Langowski Operations Director
209 East Chapman St.
Ely MN 55731

Ely Municipal Utilities
Rowland Cordes City Clerk
PO Box 110
Eitzin MN 55931

Glencoe Light & Power
Collin Engebretson Manager
305 11th St E
Glencoe MN 55336

Grand Rapids Public Utilities Commission
A.T. Ward General Manager
Village Hall
PO Box 658
Grand Rapids MN 55744

City of Fairmont
TROY NEMMERS, P.E. PUBLIC WORKS
PO BOX 751
100 DOWNTOWN PLZ
FAIRMONT MN 56031-0751

CONNEXUS ENERGY
Nancy Basara Controller
14601 Ramsey Blvd.
Ramsey MN 55303

Dakota Electric Association
Greg Miller Pres/CEO
4300 220th Street West
Farmington MN 55024-9583

Detroit Lakes Public Utilities Commission
Curt Punt Supt.
1025 Roosevelt Avenue
PO Box 647
Detroit Lakes MN 56501

East Central Energy
Garry Bye CEO
412 North Main
Braham MN 55006

Elbow Lake Municipal Electric Dept.
Jeffrey Holsen General Manager
PO Box 1079
Elbow Lake MN 56531

Fairfax Municipal Utilities
Larry Linsmeier Supt
206 South 1st Street
Fairfax MN 55332

Freeborn-Mower Electric Coop.
Jim Krueger CEO/President
PO Box 611
2501 Main St E
Albert Lea MN 56007

Goodhue County Cooperative Electric
Douglas K. Fingerson Gen Mgr
PO Box 99
1410 NorthStar Dr
Zumbrota MN 55992-1091

Granite Falls Munic. Elec. Light & Water Dept.
W. P. Lavin City Mgr.
885 Prentice St.
Granite Falls MN 56241-1598
<table>
<thead>
<tr>
<th>Electric</th>
<th>Company</th>
<th>Address</th>
<th>City</th>
<th>State</th>
<th>Zip Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric 245</td>
<td>Halstad Municipal Utilities</td>
<td>David Meyer Supt.</td>
<td>405 2nd Ave. W.</td>
<td>Halstad MN</td>
<td>56548</td>
</tr>
<tr>
<td>Electric 246</td>
<td>Hamlin (HD) Electric Coop.</td>
<td>Janice Nordseth Office Mgr.</td>
<td>423 3rd Ave So</td>
<td>Clear Lake SD</td>
<td>57226</td>
</tr>
<tr>
<td>Electric 247</td>
<td>Hastings Public Utilities Commission</td>
<td>James Heusser</td>
<td>1225 Progress Drive</td>
<td>Hastings MN</td>
<td>55033</td>
</tr>
<tr>
<td>Electric 248</td>
<td>Hawley Public Utilities Comm. - Electric</td>
<td>Kevin Berg</td>
<td>PO Box 69</td>
<td>Hawley MN</td>
<td>56549-0069</td>
</tr>
<tr>
<td>Electric 249</td>
<td>Harmony Water &amp; Light</td>
<td>Chris Johnson</td>
<td>225 3rd Ave SW</td>
<td>Harmony MN</td>
<td>55939</td>
</tr>
<tr>
<td>Electric 250</td>
<td>Henning Power &amp; Light</td>
<td>D. Hagen Mgr.</td>
<td>PO Box 55</td>
<td>Henning MN</td>
<td>56551</td>
</tr>
<tr>
<td>Electric 251</td>
<td>Hutchinson Utilities Commission</td>
<td>Patrick Speelman Mgr.</td>
<td>225 Michigan St. S.E.</td>
<td>Hutchinson MN</td>
<td>55350</td>
</tr>
<tr>
<td>Electric 252</td>
<td>Interstate Power &amp; Light &amp; Company - Electric</td>
<td>Kent Ragsdale Reg.</td>
<td>P.O. Box 351</td>
<td>Cedar Rapids IA</td>
<td>52406-0351</td>
</tr>
<tr>
<td>Electric 253</td>
<td>Janesville Municipal Utilities</td>
<td>Clinton Rogers City Administrator</td>
<td>101 North Mott St.</td>
<td>Janesville MN</td>
<td>56048-0617</td>
</tr>
<tr>
<td>Electric 254</td>
<td>Kandiyohi Power Cooperative</td>
<td>David J. George Mgr.</td>
<td>8605 47th St NE</td>
<td>Park Rapids MN</td>
<td>56470</td>
</tr>
<tr>
<td>Electric 255</td>
<td>Kasota Electric Light Dept.</td>
<td>Rosie Sickler Clerk/Treasurer P.O. Box 218</td>
<td>Kasota MN</td>
<td>Kasota MN</td>
<td>56050</td>
</tr>
<tr>
<td>Electric 256</td>
<td>Kasson Municipal Electric Dept.</td>
<td>Finance Director</td>
<td>401 - 5th St. SE</td>
<td>Kasson MN</td>
<td>55944</td>
</tr>
<tr>
<td>Electric 257</td>
<td>Lake Crystal Public Utilities Commission</td>
<td>Robert Hauge City Administrator</td>
<td>100 E. Robinson Street</td>
<td>Lake Crystal MN</td>
<td>56055-0086</td>
</tr>
<tr>
<td>Electric 258</td>
<td>Kenyon Municipal Utilities</td>
<td>Randy Eggert Supt.</td>
<td>709 2nd Street</td>
<td>Kenyon MN</td>
<td>55946</td>
</tr>
<tr>
<td>Electric 259</td>
<td>Lake Country Power</td>
<td>General Manager</td>
<td>Grand Rapids Service Center</td>
<td>Grand Rapids MN</td>
<td>55744</td>
</tr>
<tr>
<td>Electric 260</td>
<td>Lake Park Utilities</td>
<td>Don Quasley Utility Supt.</td>
<td>PO Box 239</td>
<td>Lake Park MN</td>
<td>56554</td>
</tr>
<tr>
<td>Electric 262</td>
<td>Lanesboro Public Utilities Commission</td>
<td>Barbara Hoyhtya City Admin.</td>
<td>PO Box 333</td>
<td>Lanesboro MN</td>
<td>55949</td>
</tr>
<tr>
<td>Electric 263</td>
<td>LeSueur Municipal Utilities</td>
<td>Rick Almich Supt.</td>
<td>PO Box 176</td>
<td>LeSueur MN</td>
<td>56058-0176</td>
</tr>
<tr>
<td>Electric 264</td>
<td>Lyon-Lincoln Electric Cooperative, Inc.</td>
<td>West Highway 14</td>
<td>PO Box 639</td>
<td>Tyler MN</td>
<td>56178-0639</td>
</tr>
<tr>
<td>Electric 265</td>
<td>Lynden Electric Coop.</td>
<td>Janelle Nordseth Office Mgr.</td>
<td>423 3rd Ave So</td>
<td>Lynden MN</td>
<td>56264</td>
</tr>
<tr>
<td>Electric 266</td>
<td>Luverne Municipal Utilities</td>
<td>Red Arndt Utilities Coordinator</td>
<td>305 E Luverne St.</td>
<td>Luverne MN</td>
<td>56156</td>
</tr>
<tr>
<td>Electric 267</td>
<td>Litchfield Public Utilities Commission</td>
<td>Leslie Valiant</td>
<td>126 Marshall Ave N</td>
<td>Litchfield MN</td>
<td>55355</td>
</tr>
<tr>
<td>Company Name</td>
<td>Phone Number</td>
<td>Address</td>
<td>City, State Zip</td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------</td>
<td>--------------</td>
<td>---------</td>
<td>----------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mabel Public Utilities</td>
<td>Electric 269</td>
<td>Madelia Municipal Light &amp; Power Dept.</td>
<td>Madelia MN 56062</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Marshall Municipal Utilities</td>
<td>Electric 272</td>
<td>McKinley Public Utilities</td>
<td>McKinley MN 55761</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meeker Light &amp; Power Assn.</td>
<td>Electric 121</td>
<td>Melrose Public Utilities</td>
<td>Melrose MN 56352-0216</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minnesota Municipal Utilities Association</td>
<td>Electric</td>
<td>Minnesota Power</td>
<td>Duluth MN 55802-2191</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Moose Lake Water &amp; Light Comm.</td>
<td>Electric 276</td>
<td>Mora Public Utilities Commission</td>
<td>Mora MN 55051-1588</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mountain Lake Municipal Utilities</td>
<td>Electric 279</td>
<td>Nashwauk Public Utilities Dept.</td>
<td>Nashwauk MN 55769-1131</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nobles Cooperative Electric</td>
<td>Electric 126</td>
<td>North Branch Light &amp; Power Comm.</td>
<td>North Branch MN 55056</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meeker Light &amp; Power Assn.</td>
<td>Electric 122</td>
<td>Mille Lacs Energy Coop. (E)</td>
<td>Aitkin MN 56431</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minnesota Municipal Utilities Association</td>
<td>Electric 015</td>
<td>Minnesota Rural Electric Association</td>
<td>Maple Grove MN 55369</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minnesota Valley Coop. Light &amp; Power Assn.</td>
<td>Electric 124</td>
<td>Moorhead Public Service Dept. (E)</td>
<td>Moorhead MN 56561-0779</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mountain Lake Municipal Utilities</td>
<td>Electric 280</td>
<td>New Prague Utilities Commission</td>
<td>New Prague MN 56071</td>
<td></td>
<td></td>
</tr>
<tr>
<td>New Ulm Public Utilities Comm. - Electric</td>
<td>Electric 127</td>
<td>Nielsville Municipal Utility</td>
<td>Nielsville MN 56568</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nobles Cooperative Electric</td>
<td>Electric 129</td>
<td>Northern States Power Company dba Xcel</td>
<td>Minneapolis MN 55401</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Northwestern Wisconsin Electric Co.
Mark F. Dahlberg President
PO Box 9
104 South Pine Street
Grantsburg WI 54840-0009

Otter Tail Power Company
Jeff Legge Controller
P.O. Box 496
215 South Cascade Street
Fergus Falls MN 56538-0496

Peterson Electric Dept.
P. Benson
PO Box 94
Peterson MN 55962

Preston Public Utilities
F. Nagle Admin.
PO Box 657
Preston MN 55965

Randall Electric Light Company
Gerald Peterschick Admin.
Randall MN 56475

Redwood Electric Cooperative
Thomas Malone
60 Pine Street -po box 15
Clements MN 56224-0015

Rochester Public Utilities
Larry Koshire Mgr.
4000 East River Rd NE
Rochester MN 55906-2813

Round Lake Municipal Utility
Sandy Consoer Clerk
PO Box 72
Round Lake MN 56167-0072

Rushmore Electric Dept.
Colleen Grus Cerk/Treasurer
PO Box 227
Rushmore MN 56168

Shelly Electric Dept.
Jodean Neil Clerk
PO Box 126
Shelly MN 56581

Olivia Municipal Water & Light Dept.
Greg Lippert Supt.
1009 West Lincoln Avenue
Olivia MN 56277

Owatonna Municipal Public Utilities - Electric
Stephen Shorts General Manager
208 South Walnut
PO Box 800
Owatonna MN 55060

Pierz Municipal Utilities
Mike Derosia Supt.
PO Box 367
Pierz MN 56364

Princeton Public Utilities Commission
John Dunham Gen. Mgr.
907 1st Street
Princeton MN 55371

Red Lake Electric Coop.
R.M. Kennedy Mgr.
PO Box 430
Red Lake Falls MN 56750

Redwood Falls Public Utilities
Charles Heins Supt.
333 S. Washington Street
Redwood Falls MN 56283

Roseau Electric Coop., Inc.
Randy Spicer Assist. Manager
1107 3rd St NE
Roseau MN 56751

Runestone Electric Assn.
7th & Fillmore
PO Box 9
Alexandria MN 56308

Sauk Centre Light & Power Comm.
Marty Sunderland Supt.
101 South Main Street
PO Box 128
Sauk Centre MN 56378

Sleepy Eye Public Utilities Commission
David Logue Supt.
130 2nd Avenue NW
Sleepy Eye MN 56085

South Central Electric Assn.
T. Malone Mgr.
PO Box 150
County Road 57 West
St. James MN 56081

Ortonville Light & Water Dept.
Roman Taffe Supt.
217 3rd Street NW
Ortonville MN 56278

Peoples Coop. Power Assn. Of Olmsted
Elaine Garry President/CEO
3935 Hwy 14 East
PO Box 339
Rochester MN 55903

PKM Electric Cooperative Assn.
Charles Riesen Mgr.
406 North Minnesota Street
PO Box 108
Warren MN 56762

Proctor Public Utilities Comm.
Carol Lind Commission Secretary
100 Pionk Drive
Proctor MN 55810

Red River Valley Coop. Power Assn.
Loren Brorby Manager
P. O. Box 358
Halstad MN 56548-0358

Renville-Sibley Cooperative Power
Dale Christensen CEO
PO Box 68
Danube MN 56230

Roseau Munic. Power Plant
Jim Viekyarious Supt
100 2nd Avenue
PO Box 307
Roseau MN 56751

Rushford Electric Dept.
Windy Block Admin
PO Box 430
Rushford MN 55971

Shakopee Public Utilities
Lou Van Hout Mgr.
255 Sarazin St
Shakopee MN 55379

South Central Electric Assn.
T. Malone Mgr.
PO Box 150
County Road 57 West
St. James MN 56081